

Amendments To The Claims

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

Claim 1 (currently amended) An intrusion detector for ~~the-a~~ vehicle, the detector being attachable to the vehicle, wherein the intrusion detector comprises a carbon dioxide detector responsive to the presence of carbon dioxide in a compartment of the vehicle, and wherein the intrusion detector is operable to generate an alarm if the ~~proportion-concentration~~ of carbon dioxide in the compartment exceeds a selected level.

Claim 2 (cancelled)

Claim 3 (currently amended) An intrusion detector according to claim 1 ~~or claim 2~~ wherein the intrusion detector is adapted to be mounted on the exterior of the vehicle and wherein a duct is provided whereby air from the compartment may be passed to the carbon dioxide detector.

Claim 4 (currently amended) An intrusion detector according to claim 3 ~~wherein-and further including a fan is provided adapted~~ to pass air from the compartment to the carbon dioxide detector.

Claim 5 (currently amended) An intrusion detector according to ~~any one of the preceding claims~~ ~~claim 1, and wherein said detector includes a battery which is connectable to be charged from a power supply of the vehicle and further comprising a battery which may be charged by the power supply.~~

Claim 6 (currently amended) An intrusion detector according to ~~any one of the preceding claims~~claim 1, and wherein ~~in the said~~ selected level of carbon dioxide is at least 2500 ppm, ~~and preferably at least 3500 ppm, most preferably at least 2000 ppm.~~

Claim 7 (currently amended) An intrusion detector according to ~~any one of the preceding claims~~claim 1, and wherein the alarm ~~comprises~~includes at least one of an audible alarm, a visual alarm, and the transmission of an alarm message.

Claim 8 (currently amended) An intrusion detector according to ~~any one of the preceding claims~~claim 1, and further ~~comprising~~including an auxiliary detector responsive to the presence of a person to the compartment.

Claim 9 (currently amended) An intrusion detector according to claim 8, and wherein the auxiliary detector comprises a PIR detector ~~or a microwave detector.~~

Claim 10 (cancelled)

Claim 11 (cancelled)

Claim 12 (cancelled)

Claim 13 (cancelled)

Claim 14 (cancelled)

Claim 15 (cancelled)

Claim 16 (new) An intrusion detector according to claim 8, and wherein the auxiliary detector comprises a microwave detector.

Claim 17 (new) An intrusion detector according to claim 6, and wherein said selected level of carbon dioxide is at least 2500 ppm.

Claim 18 (new) An intrusion detector according to claim 6, and wherein said selected level of carbon dioxide is at least 3500 ppm.

Claim 19 (new) In combination with a vehicle having a compartment, an intrusion detector attached to said vehicle, said intrusion detector including a carbon dioxide detector responsive to a predetermined concentration of carbon dioxide in said compartment for generating an alarm.

Claim 20 (new) A vehicle with an intrusion detector, according to claim 19, and wherein said vehicle comprises a trailer for a tractor-trailer combination.

Claim 21 (new) A vehicle with an intrusion detector, according to claim 19, wherein said intrusion detector is mounted on an exterior of said vehicle, and wherein said intrusion detector is connected through a duct to said compartment.

Claim 22 (new) A vehicle with an intrusion detector, according to claim 21, and wherein said intrusion detector further includes a fan mounted to cause a flow of air from said compartment through said carbon dioxide detector.

Claim 23 (new) A vehicle with an intrusion detector, according to claim 21, and wherein said predetermined carbon dioxide concentration is at least 2000 ppm.

Claim 24 (new) A vehicle with an intrusion detector, according to claim 22, and wherein said predetermined carbon dioxide concentration is at least 2500 ppm.

Claim 25 (new) A vehicle with an intrusion detector, according to claim 22, and wherein said predetermined carbon dioxide concentration is at least 3500 ppm.